

## M 4.9, 104 km SE of Blenheim, New Zealand

Origin Time: 2020-10-28 03:01:37 UTC (Wed 15:01:37 local)

Location: 42.2777° S 174.6852° E Depth: 26.6 km

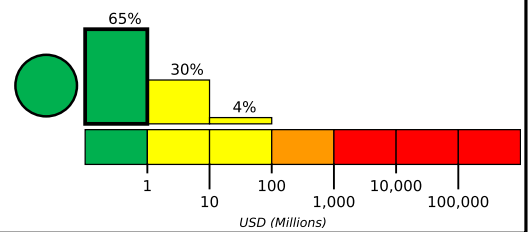
Created: 2 hours, 5 minutes after earthquake

### Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

### Estimated Economic Losses

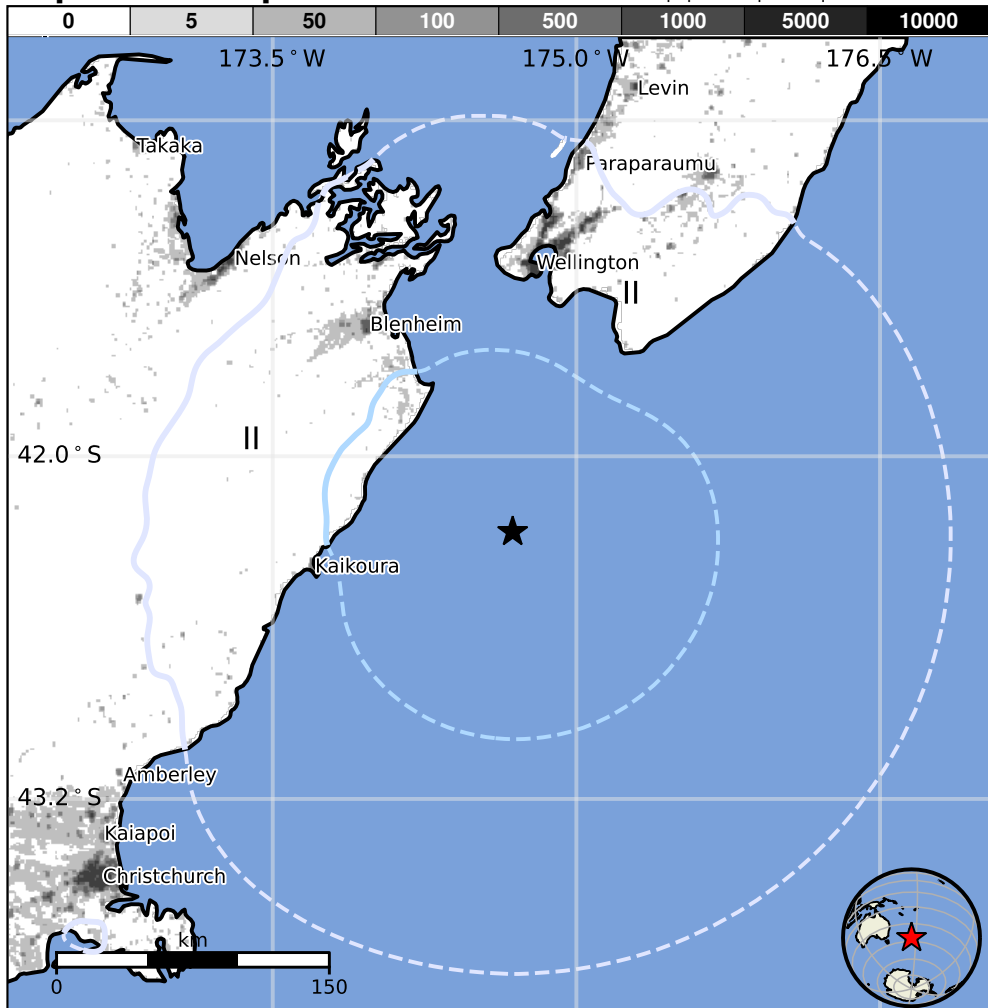


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		624k*	528k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

### Population Exposure



### Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are reinforced masonry and unreinforced brick with timber floor construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1992-03-02	254	5.5	V(3k)	—
1982-09-02	330	5.4	VII(47k)	—
1968-05-23	219	7.2	IX(1k)	3

### Selected City Exposure

from GeoNames.org

MMI	City	Population
II	Blenheim	27k
II	Kaikoura	2k
II	Wellington	382k
II	Brooklyn	4k
II	Lower Hutt	101k
II	Porirua	51k
II	Upper Hutt	38k
II	Paraparaumu	25k
I	Richmond	14k
I	Christchurch	364k
I	Nelson	59k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000c6kh#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000c6kh